

EUROPEAN PATENT APPLICATION

Application number: **87105061.3**

Int. Cl.⁵: **G09G 1/16**

Date of filing: **06.04.87**

Priority: **07.04.86 US 848599**

Date of publication of application:
14.10.87 Bulletin 87/42

Designated Contracting States:
DE FR GB

Date of deferred publication of the search report:
22.11.90 Bulletin 90/47

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Digital video generator.

A digital video generator provides for smooth scrolling of a video image across a video display device. A digital memory contains data to be displayed. Under control of a computer this data is transferred to a display memory as needed. The data is displayed with a gray scale intensity level for each pixel. Two successive pixels in the direction of movement are read out of the display memory, a current pixel and a next pixel, and are added together in a mixer with a weighting factor determined by the computer according to the scrolling speed selected to provide a weighted pixel. The weighted pixel is converted into analog video data for display. At intervals depending upon the selected scrolling speed the computer reloads the display memory from the digital memory to replace the data which has been displayed and scrolled off the monitor. Initial values for the top of the display field and the weighting factor are computed each display cycle. The result is the appearance of smooth partial pixel movement for each display cycle.

EP 0 240 970 A3



DOCUMENTS CONSIDERED TO BE RELEVANT																			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)																
A	EP-A-0 153 197 (IBM) * Page 6, paragraph 3 - page 9, paragraph 2 * ---	1	G 09 G 1/16																
A	EP-A-0 148 575 (MOTOROLA, INC.) * Page 7, line 1 - page 9, line 10 * ---	1																	
A	EP-A-0 105 116 (IBM) * Claim 1 * -----	1																	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)																
			G 09 G																
The present search report has been drawn up for all claims																			
Place of search THE HAGUE		Date of completion of the search 12-06-1990	Examiner TIBAUD M.J.P.G.																
<table border="0"><tr><td>CATEGORY OF CITED DOCUMENTS</td><td>T : theory or principle underlying the invention</td></tr><tr><td>X : particularly relevant if taken alone</td><td>E : earlier patent document, but published on, or</td></tr><tr><td>Y : particularly relevant if combined with another</td><td>after the filing date</td></tr><tr><td>document of the same category</td><td>D : document cited in the application</td></tr><tr><td>A : technological background</td><td>L : document cited for other reasons</td></tr><tr><td>O : non-written disclosure</td><td>.....</td></tr><tr><td>P : intermediate document</td><td>& : member of the same patent family, corresponding</td></tr><tr><td></td><td>document</td></tr></table>				CATEGORY OF CITED DOCUMENTS	T : theory or principle underlying the invention	X : particularly relevant if taken alone	E : earlier patent document, but published on, or	Y : particularly relevant if combined with another	after the filing date	document of the same category	D : document cited in the application	A : technological background	L : document cited for other reasons	O : non-written disclosure		P : intermediate document	& : member of the same patent family, corresponding		document
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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

X LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims 1-8: Video display generator using smooth scrolling by mixing consecutive pixels in the direction of movement with a weighting factor
2. Claim 9: Teleprompter system with word processor and character generator using smooth scrolling

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☒ None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims,

namely claims: 1-8